Serial No.: 10/002,557 Inventor: RAMACHANDRAN, et al. Docket No.: COM-002.4D
Title: SS IN A USAGE BASED LICENSING SERVER TO COM-002.4D
RT METRIC DATA IN DATA
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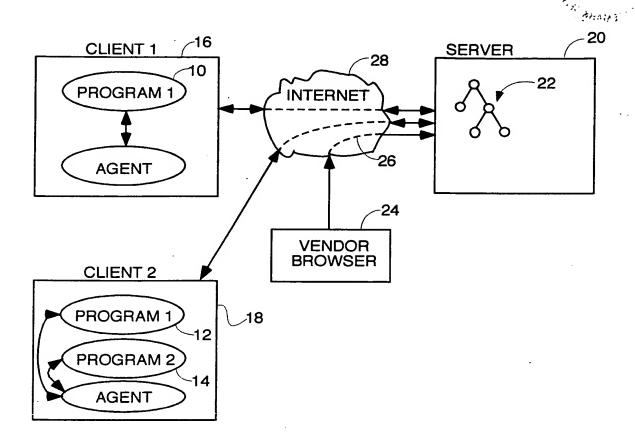


FIG. 1

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35 2/28 -22 **DATA 32** 31 STRUCTURE R2 R<sub>1</sub> 30 -33 ORG. 1 42 46 54 52 56 88 VENDOR CLIENT 1 DIST. 1 **CLIENT 2** BROWSER 86 66 38 36 40 64 50 76 CLIENT 3 CLIENT CONFIG R1 78 R2 USAGE DATA <u>US</u>AGE 74 105 <sup>-</sup> -80 R2 84 R<sub>1</sub> <u>US</u>AGE WAGE 51 82 R2 USAGE -92 87 89 60 **CLIENT** CLIENT 1 M1 **CLIENT 3** 70 62 R2 M1 R1 R2 M2 DIST. 1 91 R1 72 68 R2 R1 R2 90 **CLIENT 4 BROWSER** R2

FIG. 2

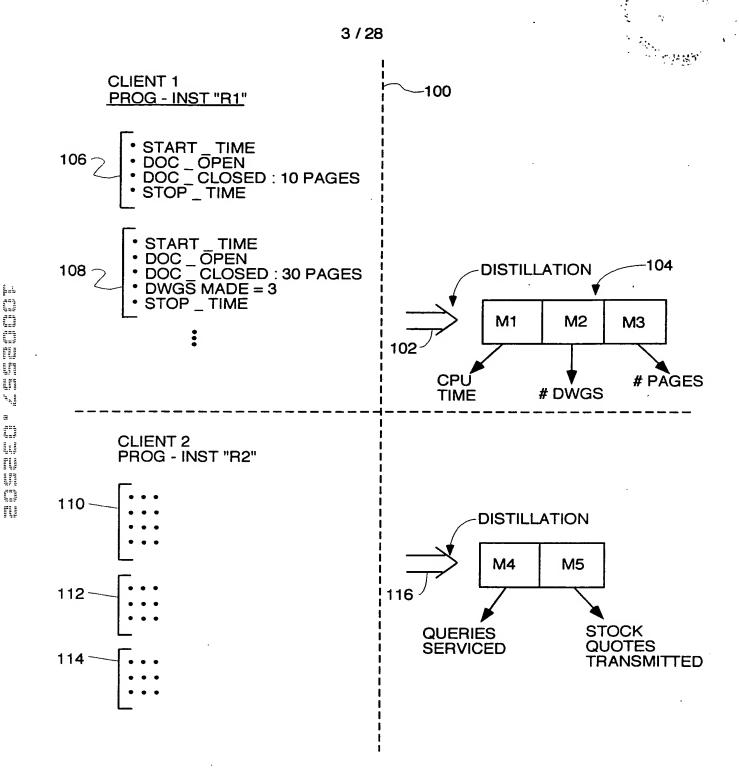
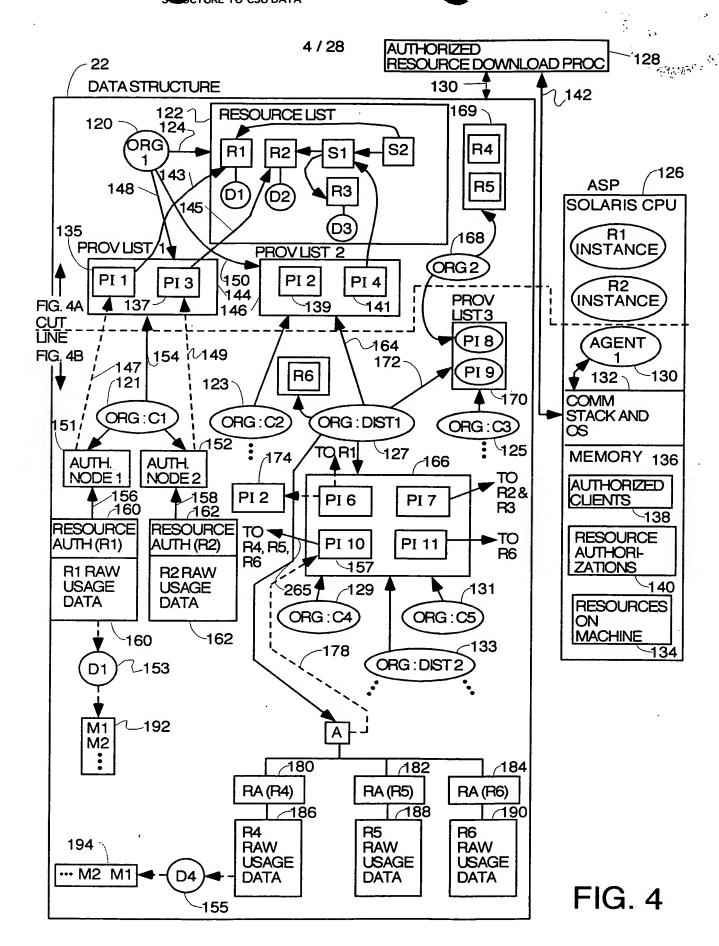


FIG. 3

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TITLE: Docket No.: COM-002.4D



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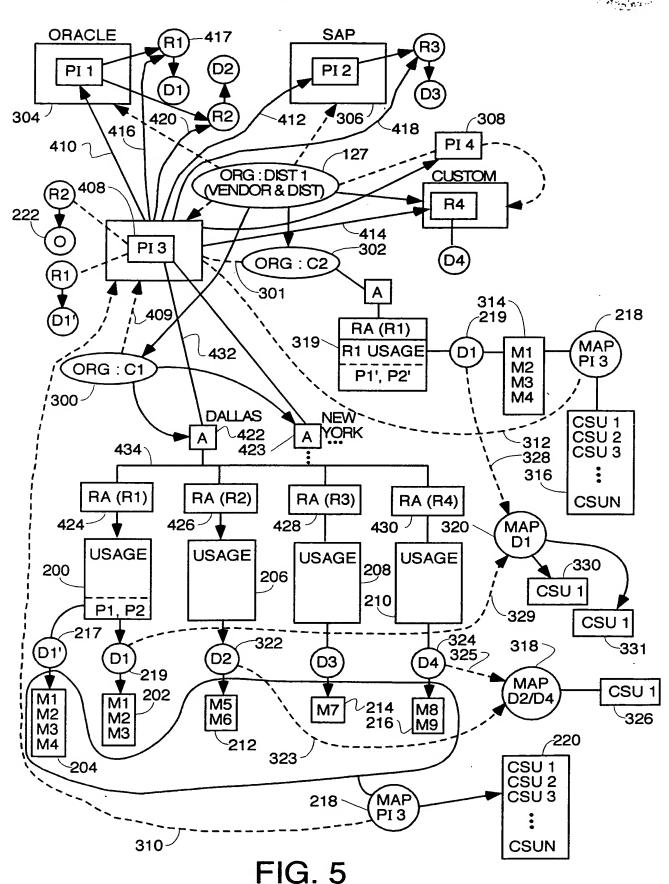
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Docket No.: COM-002.4D 🛷 RT METRIC DATA IN DATA

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Docket No.: COM-002.4D \*\*\* RT METRIC DATA IN DATA

TURE TO CSU DATA

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### OVERALL PROCESS TO DISTILL RAW USAGE DATA TO METRIC DATA BY A PROGRAMMABLE MAPPING

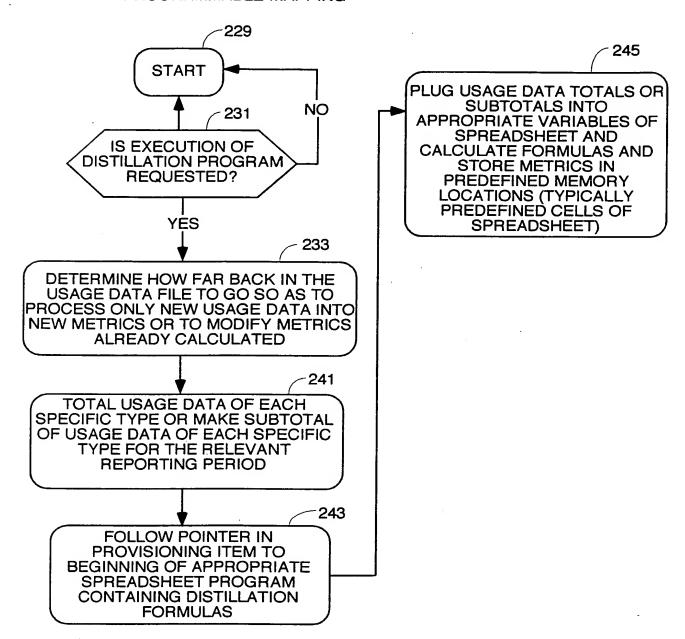


FIG. 6A

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TURE TO CSU DATA

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OVERALL PROCESS TO DISTILL RAW USAGE DATA TO METRIC DATA BY A PROGRAMMABLE MAPPING USING A PROGRAMMABLE DISTILLATION PGM

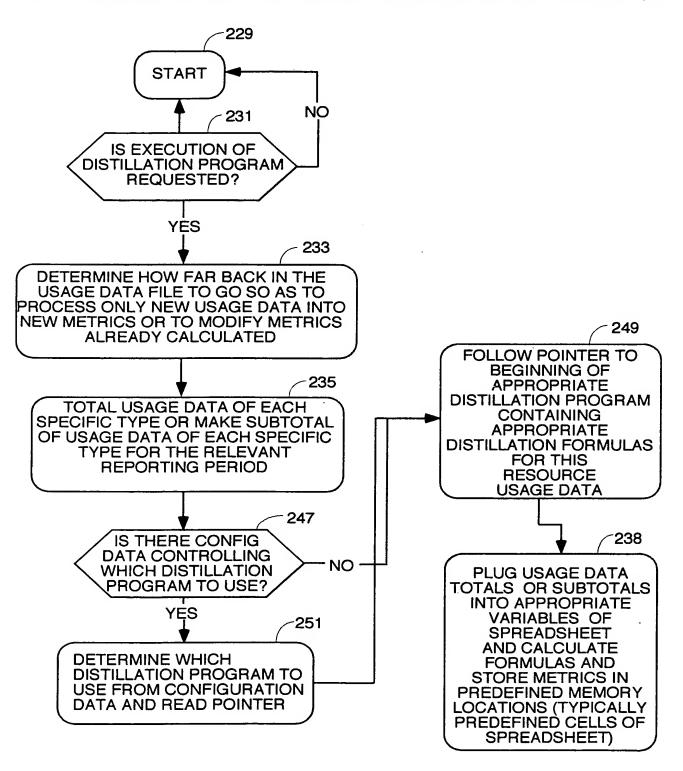


FIG. 6B

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CTURE TO CSU DATA

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PROCESS TO PROGRAMMABLY DISTILL RAW USAGE DATA TO METRICS AND PROGRAMMABLY DISTILL THE METRICS INTO CENTRAL SERVICE UNITS OF THE CUSTOMER'S DESIGN

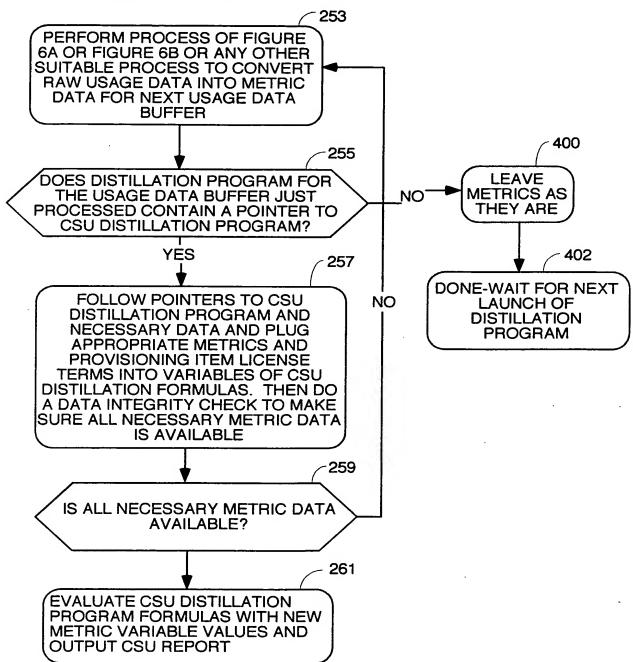


FIG. 7

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TURE TO CSU DATA

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OVERALL PROCESS TO COLLECT RAW USAGE DATA IN A CENTRAL SERVER AND USE IT TO PREPARE METRICS AND PREPARE INVOICES OR REPORTS THEREFROM

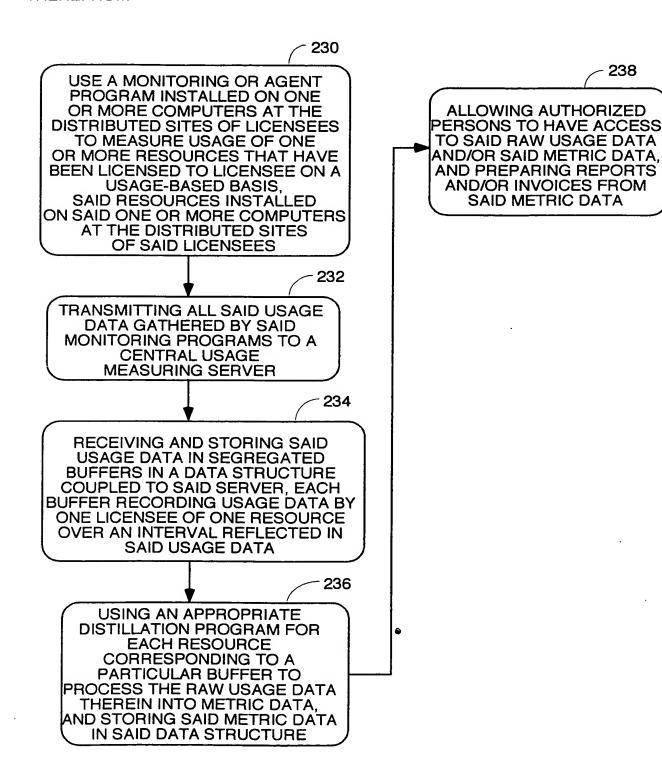


FIG. 8

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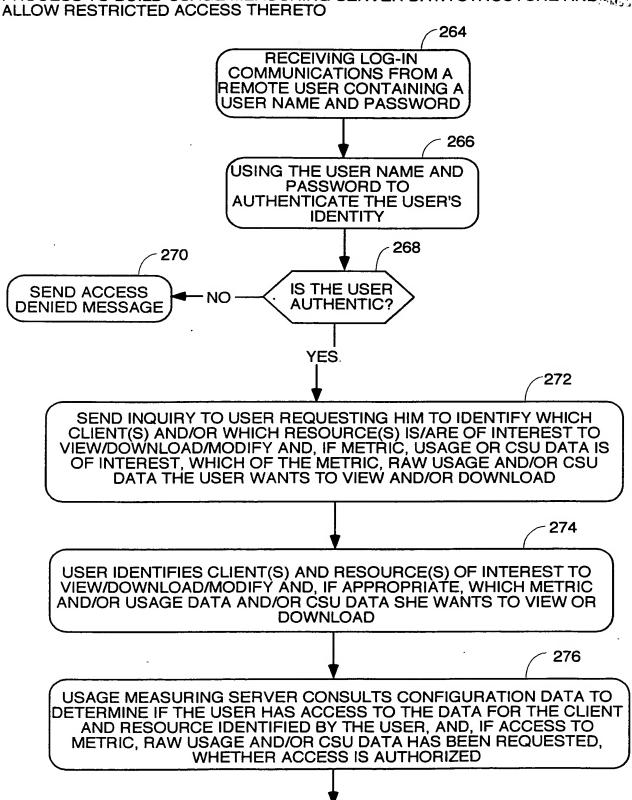
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PROCESS TO BUILD USAGE MEASURING SERVER DATA STRUCTURE AND MAKES



TO FIG. 9B

FIG. 9A

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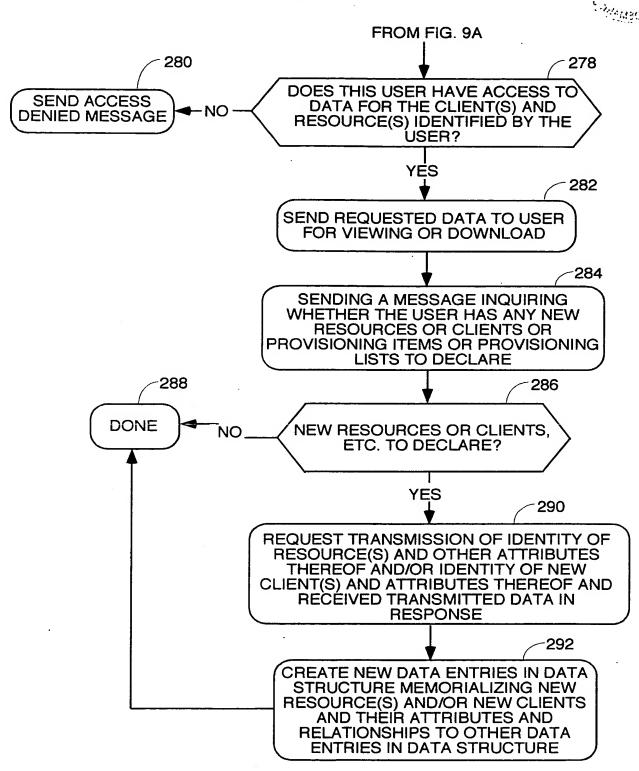
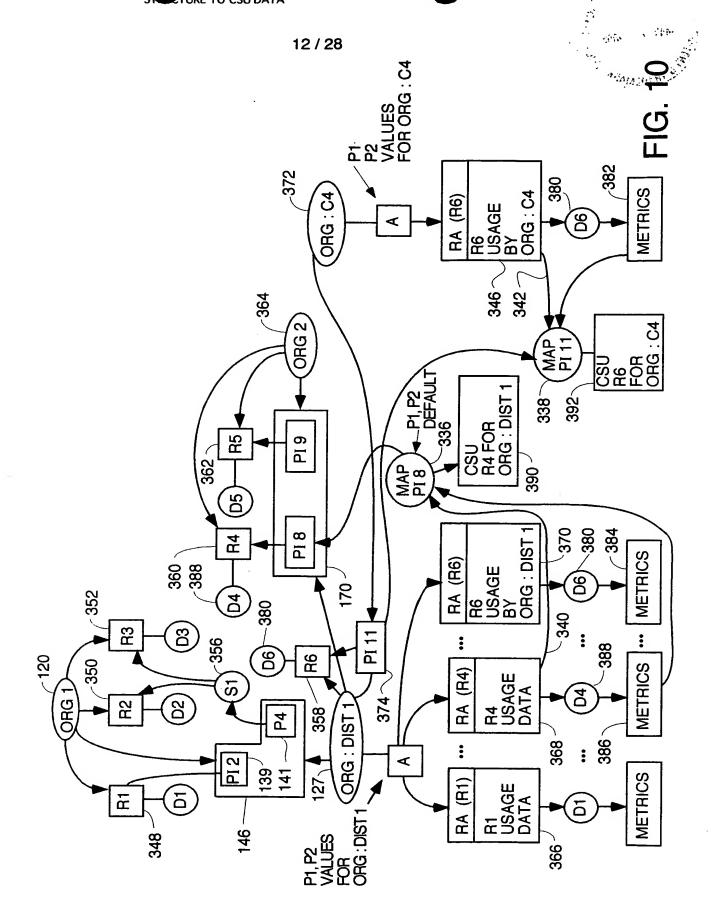


FIG. 9B

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Title: Possible in a USAGE BASED LICENSING SERVER TO CORRECT METRIC DATA IN DATA STURE TO CSU DATA



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S IN A USAGE BASED LICENSING SERVER TO CQ

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ALTERNATIVE PROCESS TO PROGRAMMABLY DISTILL RAW USAGE DATA TO METRICS AND PROGRAMMABLY DISTILL THE METRICS INTO CENTRAL SERVICE UNITS USING A CSU DISTILLATION PROGRAM LINKED TO PROVISIONING ITEM DETAILING LICENSE TERMS

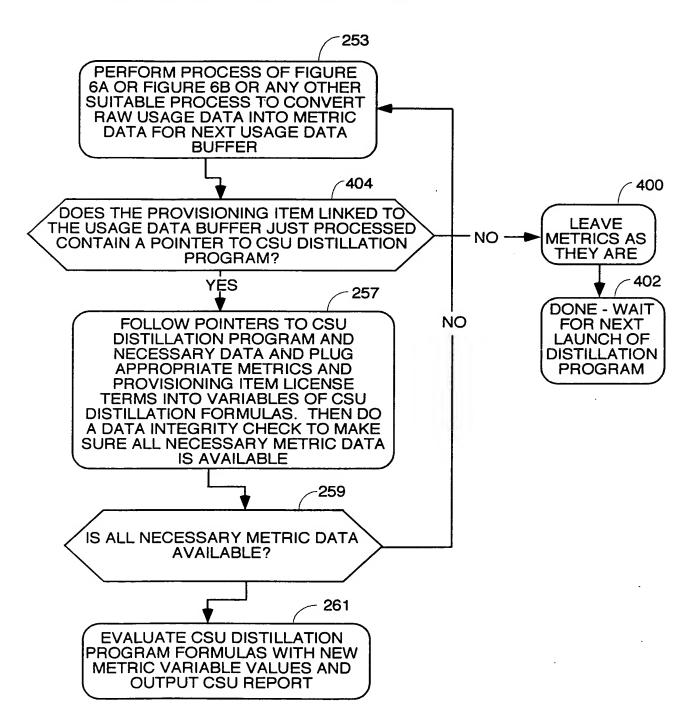


FIG. 11

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Inventor: RAMACHANDRAN, et al. BS IN A USAGE BASED LICENSING SERVER TO CO

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TURE TO CSU DATA

### 14/28

ALTERNATIVE PROCESS TO PROGRAMMABLY DISTILL RAW USAGE DATA TO METRICS AND PROGRAMMABLY DISTILL THE METRICS INTO CENTRAL SERVICE UNITS USING A CSU DISTILLATION PROGRAM LINKED TO THE USAGE DATA BUFFER OF EACH CLIENT THAT WANTS CSU BASED REPORTS

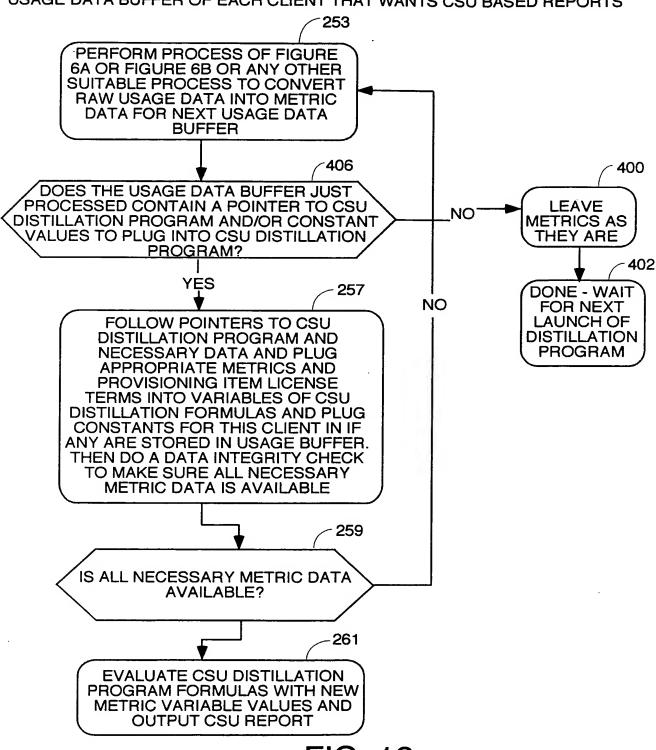


FIG. 12

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Inventor: RAMACHANDRAN, et al. S IN A USAGE BASED LICENSING SERVER TO CO

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25M3C 533 PROCESS TO CREATE DATA STRUCTURE TO SUPPORT SUITE LICENSING AND TO USE THE DATA STRUCTURE TO IMPLEMENT SUITE LICENSING

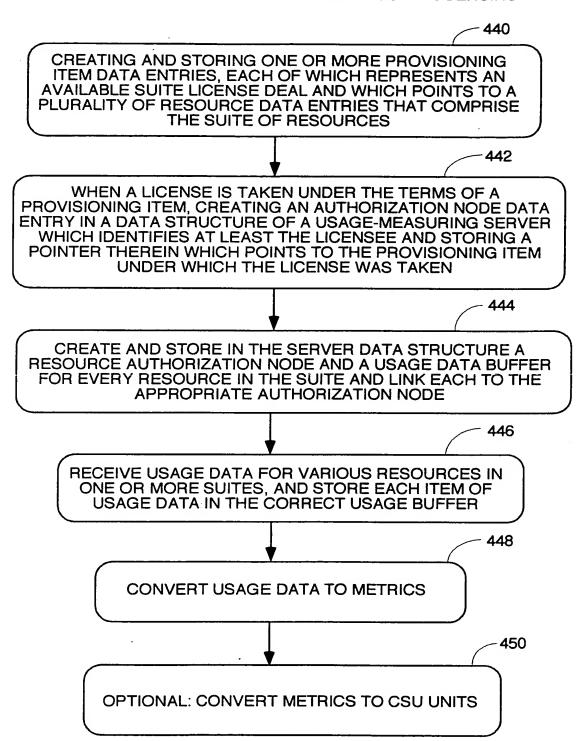


FIG. 13

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TURE TO CSU DATA

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ONE STOP SHOPPING PROCESS TO DETERMINE ALL AVAILABLE LICENSE DEALS ON A PARTICULAR RESOURCE

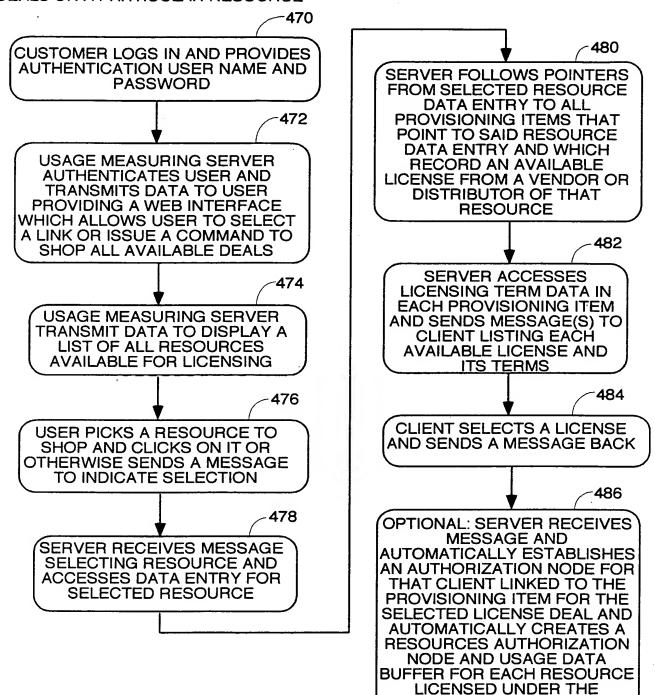


FIG. 14

PROVISIONING ITEM 486

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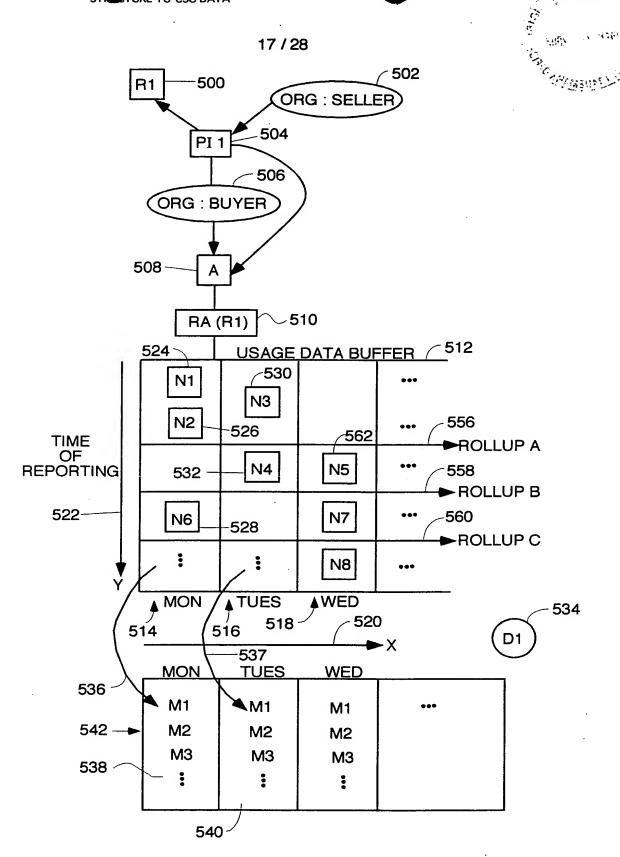


FIG. 15

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<u>.</u> TU Docket No.: COM-002,4D T METRIC DATA IN DATA

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PROCESS TO COLLECT USAGE DATA, PARTITION IT INTO TIME SEGMENTS AND GENERATE METRICS THEREFROM

544 USE AGENT PROGRAM TO COLLECT USAGE DATA ON EACH RESOURCE AND TIME AND DATE OF EACH USE AND SENDING THE USAGE DATA TO THE USAGE MEASURING SERVER DIRECTLY OR INDIRECTLY 546 USAGE MEASURING SERVER RECEIVES USAGE DATA FOR EACH RESOURCE BY EACH CLIENT AND STORES IT IN THE APPROPRIATE TIME COMPARTMENT OF THE APPROPRIATE **USAGE DATA BUFFER** 548 USAGE MEASURING SERVER DETERMINES IN ANY WAY WHEN IT IS TIME TO RUN A DISTILLATION PROGRAM FOR A PARTICULAR TIME SEGMENT SUCH AS BY CHECKING CONFIGURATION DATA SETTING A SCHEDULE FOR EXECUTION OF THE DISTILLATION PROGRAM 550 SERVER LAUNCHES DISTILLATION PROGRAM FOR PARTICULAR RESOURCE FOR WHICH USAGE DATA HAS BEEN COLLECTED AND PARTITIONED AND ASSIGNS IT TO PROCESS THE USAGE DATA FOR A PARTICULAR TIME SEGMENT 552 DISTILLATION PROGRAM RETRIEVES THE USAGE DATA AND LICENSE TERMS IF NECESSARY FOR THE PARTICULAR TIME SEGMENT FOR WHICH IT IS EXECUTING, PLUGS THE DATA INTO THE APPROPRIATE FORMULAS AND CONVERTS THE DATA TO METRICS BY **EVALUATING THE FORMULAS** 554 DISTILLATION PROGRAM STORES METRICS JUST CALCULATED FOR TIME SEGMENT OF INTEREST IN A MEMORY PORTION DEDICATED TO STORING METRICS FOR THAT TIME SEGMENT

FIG. 16

19/28

**ROLLUP A ID 39** 

	MON	TUES	WED	•••
M1= CPU	10	1	0	[
M2= DOCS	500	50	0	<b></b>
M3= #PGS	759	71	0	Ī
ŀ	:	•	:	<u> </u>

ALTERNATIVE ROLLUP B ID 40

MON	MON TUES	
0	3	2
0	70	40
0	139	96

FIG. 17

FIG. 18

# PREFERRED ROLLUP B ID 50

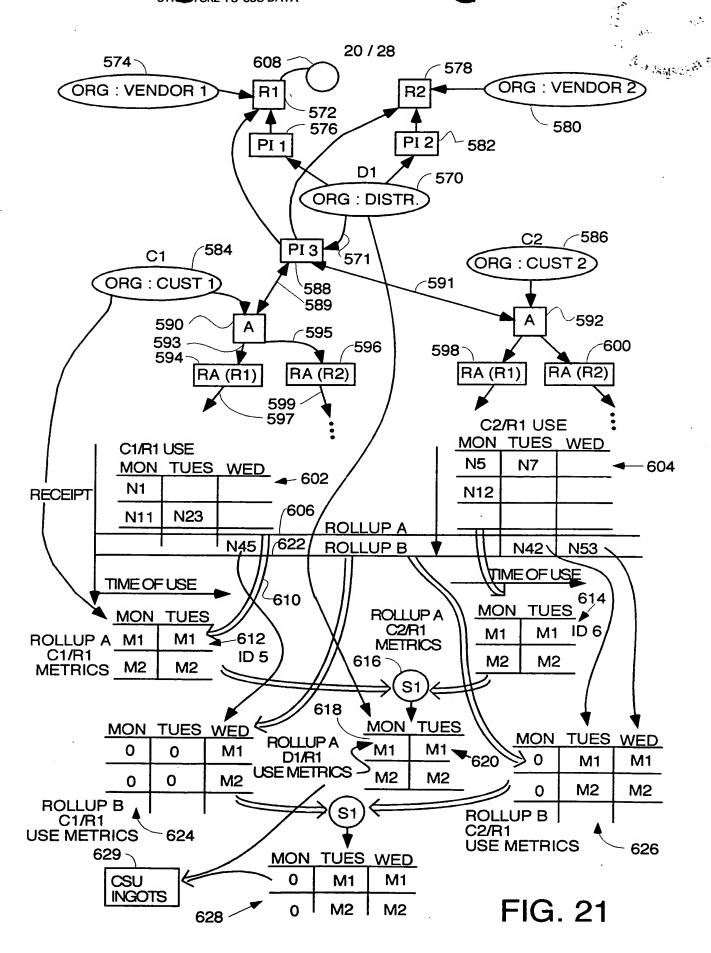
	MON	TUES	WED	
	10	4	2	,
-	500	120	40	
	759	210	96	

## **ALTERNATIVE ROLLUP B ID 40**

MON	TUES	WED	
0	4	2	
O.	120	40	
0	210	96	

FIG. 19

FIG. 20



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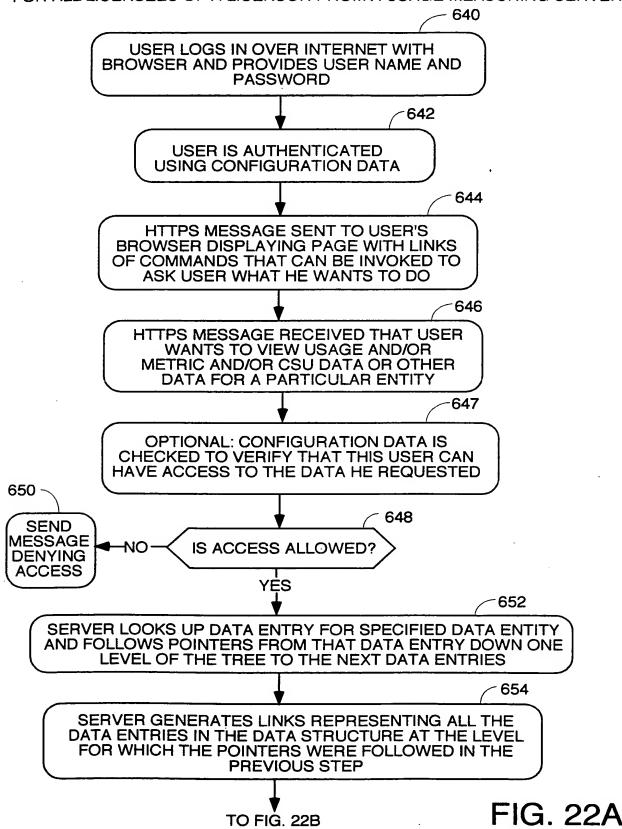
TU Docket No.: COM-002.4D T METRIC DATA IN DATA

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TURE TO CSU DATA

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PROCESS FOR ONE PROTOCOL ACCESS TO USAGE/METRIC/CSU DATAGESS FOR ALL LICENSEES OF A LICENSOR FROM A USAGE MEASURING SERVER



6 IN A USAGE BASED LICENSING SERVER TO CO Title: **METRIC DATA IN DATA** TURE TO CSU DATA 22 / 28 FROM FIG. 22A 656 SERVER SENDS THESE LINKS BACK IN HTTPS MESSAGE(S) WHICH CAUSE THE USER'S COMPUTER TO DISPLAY THE LINKS PREFERABLY WITH DESCRIPTIVE TEXT WHICH DESCRIBES WHAT EACH DATA ENTRY REPRESENTED BY A LINK IS 658 SERVER RECEIVES HTTPS MESSAGE(S) BACK FROM USER INDICATING WHICH LINKS USER SELECTED INDÍCATING WHICH DATA USER WISHES TO SEE 660 SERVER ACCESSES WHATEVER TYPE OF DATA USER SELECTED AND SENDS IT TO USER IN HTTPS MESSAGE(S) FOR DISPLAY ON **USER COMPUTER** 662 THE SERVER SENDS AN HTTPS MESSAGE TO USER ASKING IF THE USER WANTS TO SEE MORE DATA BELOW THE LEVEL OF THE TREE JUST DISPLAYED 664 SERVER RECEIVES MESSAGE INDICATING USER WANTS TO SEE MORE DATA 666 SERVER FOLLOWS LINKS FROM DATA ENTRY OR ENTRIES JUST DISPLAYED DOWN ONE MORE LEVEL OF TREE AND GENERATES LINKS FOR THE DATA ENTRY OR ENTRIES SO **FOUND** 668 SERVER SENDS HTTPS MESSAGE TO USER CAUSING LINKS SO GENERATED TO BE DISPLAYED BY USER'S BROWSER. PREFERABLY ALONG WITH DESCRIPTIVE TEXT INDICATING WHAT DATA EACH LINK REPRESENTS 670 SERVER RECEIVES MESSAGE INDICATING WHICH DATA USER WANTS TO SEE, SENDS IT TO USER, INQUIRES WHETHER HE WANTS TO SEE MORE AND REPEATS PROCESS TILL ALL LEVELS

OF TREE EXHAUSTED OR USER QUITS

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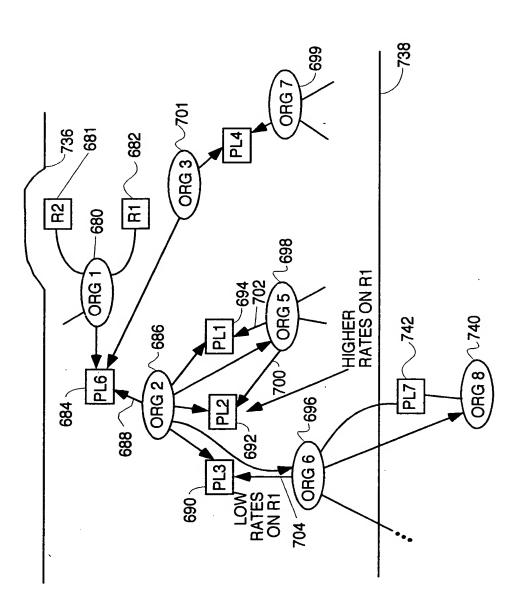
FIG. 22B

TURE TO CSU DATA

Inventor: RAMACHANDRAN, et al. S IN A USAGE BASED LICENSING SERVER TO COL

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SECURITY BARRIERS FIG. 23

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Serial No.: 10/002,557 Inventor: RAMACHANDRAN, et al. Docket No.: COM-002.4D Title: PR IN A USAGE BASED LICENSING SERVER TO COMMENT METRIC DATA IN DATA

STR. YURE TO CSU DATA

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A PROCESS TO IMPLEMENT SECURITY BARRIERS TO PREVENT USERS FROM VIEWING DATA IN A USAGE MEASURING SERVER DATA STRUCTURE THAT THE USER NOT AUTHORIZED TO VIEW

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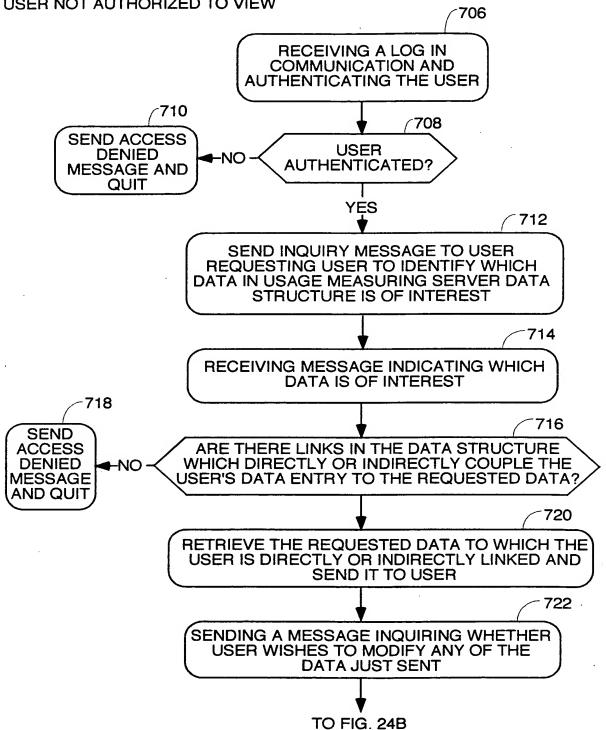


FIG. 24A

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IN A USAGE BASED LICENSING SERVER TO CO

Docket No.: COM-002.4D METRIC DATA IN DATA

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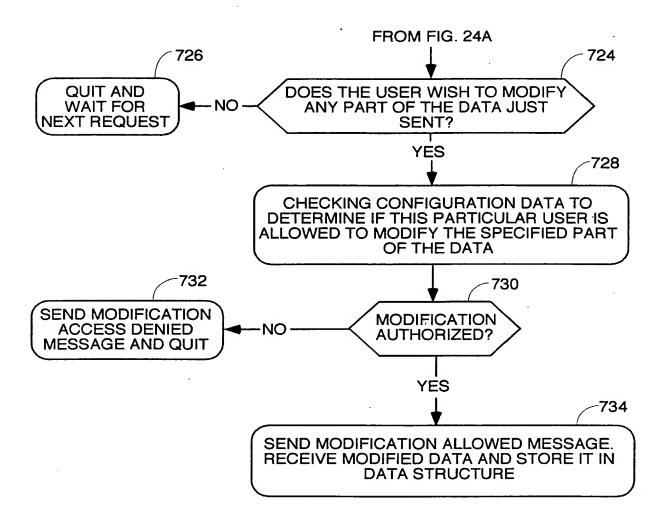
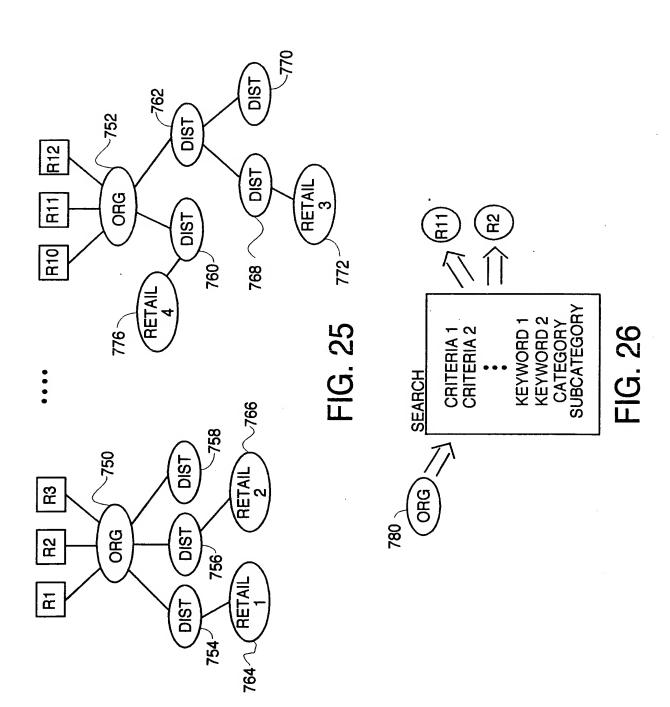


FIG. 24B

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T METRIC DATA IN DATA Serial No.: 10/002,557 Inventor: RAMACHANDRAN, et al. S IN A USAGE BASED LICENSING SERVER TO CO TURE TO CSU DATA Title: 27 / 28 CONVERT RENTAL HOTELS SERVICES SKIING AIRLINE TICKETS, RESORT PACKAGES TENNIS PKG DESKS FURNITURE TAXONOMY CATEGORIES FILE SERVERS WINDOWS ROOT DESK MODELS COMPUTERS

LAPTOPS

BOND

COPIER

PAPER

GOODS

WINDOWS

MAC

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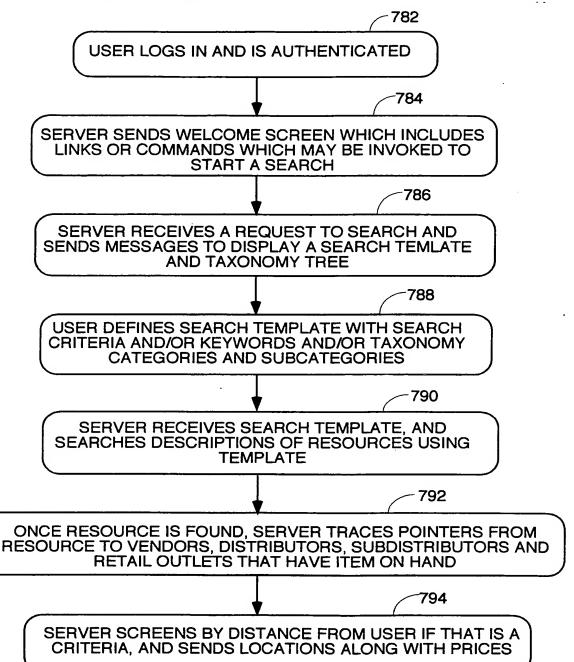
Inventor: RAMACHANDRAN, et al. S IN A USAGE BASED LICENSING SERVER TO CO

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TURE TO CSU DATA

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SERVER PROCESSINGTO IMPLEMENT ONE-STOP SHOPPING SEARCHING OF THE DATA STRUCTURE BASED UPON USER-DEFINED CRITERIA



**FIG.28**